

## EAST Search History

| Ref # | Hits | Search Query   | DBs                              | Default Operator | Plurals | Time Stamp       |
|-------|------|--|----------------------------------|------------------|---------|------------------|
| S1    | 3    | "562352".ap.   | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | ON      | 2007/06/11 09:08 |
| S2    | 652  | (455/115.1).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | OFF     | 2007/06/11 09:08 |
| S3    | 104  | S2 and attenuator  | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | ON      | 2007/06/11 09:15 |
| S4    | 64   | S3 and switch  | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | ON      | 2007/06/11 09:31 |
| S5    | 5    | ((("5347239") or ("6472948") or ("6407540") or ("5451918") or ("5862461"))).PN.  | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | OFF     | 2007/06/12 15:46 |
| S6    | 17   | ("5126686"   "5457425"   "5530923").PN. OR ("5862461").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | ON      | 2007/06/11 09:44 |
| S7    | 10   | ("3639841"   "3890571"   "4634969"   "4873484"   "4943764"   "5204613"   "5633582"   "5656929").PN. OR ("6407540").URPN. | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | ON      | 2007/06/11 10:00 |
| S8    | 214  | attenuator and (change adj over adj switch)  | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | ON      | 2007/06/11 10:03 |
| S9    | 84   | attenuator same (change adj over adj switch)   | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | ON      | 2007/06/11 10:26 |
| S10   | 56   | attenuator same (change adj over adj switch)   | EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/06/11 10:27 |
| S11   | 89   | (455/115.2).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | OFF     | 2007/06/11 11:01 |
| S12   | 1071 | (455/126).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | OFF     | 2007/06/11 11:03 |
| S13   | 313  | S12 and attenuator   | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | ON      | 2007/06/11 11:03 |
| S14   | 11   | S13 and (change adj over adj switch)   | US-PGPUB;<br>USPAT;<br>USOCR     | OR               | ON      | 2007/06/11 11:08 |

## EAST Search History

|     |      |                                    |                              |    |     |                  |
|-----|------|------------------------------------|------------------------------|----|-----|------------------|
| S15 | 161  | S13 and switch                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 11:09 |
| S16 | 150  | S15 not S14                        | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 11:43 |
| S17 | 963  | (455/226.1).CCLS.                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2007/06/11 11:45 |
| S18 | 164  | 455/24.ccls.                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 11:45 |
| S19 | 116  | S17 and attenuator                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 11:46 |
| S20 | 81   | S19 and switch                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 11:46 |
| S21 | 32   | S18 and attenuator                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 11:46 |
| S22 | 9    | S21 and switch                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 11:46 |
| S23 | 9372 | (change adj over adj switch)       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/12 07:31 |
| S24 | 2341 | S23 and mechanical                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 15:01 |
| S25 | 523  | S23 same mechanical                | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 15:14 |
| S26 | 6    | S25 and (bi adj stable)            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 15:02 |
| S27 | 0    | S25 and ((coax coaxial) adj relay) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 15:03 |
| S28 | 119  | coaxial adj relay                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 15:04 |
| S29 | 0    | S28 and S23                        | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2007/06/11 15:04 |

## EAST Search History

|     |       |   |                              |    |    |                  |
|-----|-------|---|------------------------------|----|----|------------------|
| S30 | 2     | S28 and (bi adj stable)                       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/11 15:04 |
| S31 | 30    | S25 and (coaxial coax)                        | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/11 15:08 |
| S32 | 8     | S25 and (transfer adj switch)                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/11 15:21 |
| S33 | 107   | S23 and (transfer adj switch)                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 13:43 |
| S34 | 84    | mechanical adj attenuator                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/11 16:01 |
| S35 | 9372  | (change adj over adj switch)                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 07:31 |
| S36 | 2450  | S35 and detector                              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 07:31 |
| S37 | 111   | S36 and attenuator                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 07:58 |
| S38 | 8314  | S35 and control                               | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 07:58 |
| S39 | 2172  | S38 and (voltage same detect\$4)              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 07:58 |
| S40 | 80    | S39 and attenuator                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 08:00 |
| S41 | 1501  | S35 and (control same voltage same detect\$4) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 08:00 |
| S42 | 58    | S41 and attenuator                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 08:00 |
| S43 | 17321 | attenuator and switch and control             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 09:04 |
| S44 | 12192 | attenuator and (control same switch)          | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 12:54 |

## EAST Search History

|     |       |                                 |                              |    |    |                  |
|-----|-------|---------------------------------|------------------------------|----|----|------------------|
| S45 | 530   | S44 and (voltage adj detect\$4) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 09:05 |
| S46 | 14    | S45 and S35                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 09:09 |
| S47 | 71796 | switch adj control              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 09:10 |
| S48 | 783   | S47 and S35                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 09:10 |
| S49 | 320   | S47 same S35                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 09:10 |
| S50 | 14    | S49 and attenuator              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 09:10 |
| S51 | 148   | S36 and disconnect              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 12:50 |
| S52 | 8     | S37 and disconnect              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 12:50 |
| S53 | 1090  | S44 and disconnect              | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 12:55 |
| S54 | 54    | S53 and (voltage adj detect\$4) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:09 |
| S55 | 35    | S35 same (transfer adj switch)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 14:07 |
| S56 | 84    | mechanical adj attenuator       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 14:07 |
| S57 | 18661 | mechanical adj switch           | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 14:07 |
| S58 | 4     | S56 and S57                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 14:10 |
| S59 | 548   | step adj attenuator             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 14:10 |

## EAST Search History

|     |       |  |                              |    |    |                  |
|-----|-------|--|------------------------------|----|----|------------------|
| S60 | 9     | S59 and S57                                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 14:10 |
| S61 | 8     | ("4523153").PN. OR ("4695806").<br>URPN.       | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 14:25 |
| S62 | 13574 | (single adj pole adj double adj<br>throw) SPDT | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:09 |
| S63 | 38125 | attenuator                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:10 |
| S64 | 195   | S62 same S63                                   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:10 |
| S65 | 13    | S64 same disconnect                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:10 |
| S66 | 100   | S64 same control                               | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:15 |
| S67 | 10405 | S62 and (control same switch)                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:16 |
| S68 | 6740  | S62 same control                               | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:16 |
| S69 | 113   | S68 and (voltage adj detect\$4)                | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:22 |
| S70 | 9     | S69 and attenuator                             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:22 |
| S71 | 2092  | S62 and disconnect                             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:30 |
| S72 | 79    | S71 and attenuator                             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:37 |
| S73 | 2729  | S62 and (voltage same detect\$4)               | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:38 |
| S74 | 256   | S73 and attenuator                             | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2007/06/12 15:38 |

## EAST Search History

|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| S75 | 246    | S74 and control  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON  | 2007/06/12 15:39 |
| S76 | 4      | ((("4330765") or ("3449697") or ("3900711"))).PN.                                  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | OFF | 2007/06/12 15:56 |
| S77 | 235    | over adj voltage adj detector  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/12 15:56 |
| S78 | 5      | S77 and attenuator   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/12 15:57 |
| S79 | 103954 | switch adj control   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/12 15:57 |
| S80 | 61103  | attenuator   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/12 15:58 |
| S81 | 106264 | voltage adj control  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/12 15:58 |
| S82 | 225    | S79 and S80 and S81  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/12 15:58 |
| S83 | 15     | S82 and ((change adj over adj switch) SPDT (single adj pole adj double adj throw)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/06/12 16:01 |

## EAST Search History

|     |       |  |   |    |    |                  |
|-----|-------|--|---|----|----|------------------|
| S84 | 43    | S82 and disconnect   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 16:01 |
| S85 | 26045 | voltage adj detector   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 16:01 |
| S86 | 23    | S79 and S80 and S85  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 16:05 |
| S87 | 7895  | voltage adj protection   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 16:05 |
| S88 | 123   | S87 and S80 and switch   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 16:08 |
| S89 | 63    | S88 and detector   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 16:10 |
| S90 | 91    | S87 and ((change adj over adj switch) spdt (single adj pole adj double adj throw)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/06/12 16:11 |